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pp. 489-92.

Ya. I. Ol'shanskii, The Velocity
of Crystallization of Solid
Phase Colloids at High Temper-
atures.

Proj 7535-

DEC 7 1950

Platshova, M. A.
Rebinder, P. A.

Doklady Akademi Nauk SSSR, Vol. 62, 1948, #4, pp. 501-504; 2 figures, 2100 words.

Influence of Surface Activity of Liquid Sodium upon
Cutting Processes and Machinability of Metals.

Butcher Trans, Order No. 265, \$4.20

Determination Of the Suction Force Of ~~Leaves~~ By
the Compensation Method With the Aid Of A Refrac-
tometer by N. Maksimov and N. Petinov.

RUSSIAN, per, Doklady Akademii Nauk, SSSR, Vol. LXII,
No 4, 1948, pp 537-540.

CSIRO Tr 3861

Oct. 62

59/49779 I-294

DAN Vol. 62, No. 5, 1948

"Siderite with Leuconia" ---

On Certain Criteria of Stability of the Integrals
of a System of Two Linear Differential Equations
with Periodic Coefficients, by A. V.
Yurovskiy, 7 pp. UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXII,
No 5, 1948, pp 595-598.

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AEC J-1192
Sci Tr Center
RT-2028

Scientific - Mathematics

Jan 55 CTS
~~Dec 54 CTS~~

Dependence of the Fluorescence Yield of Iodine
Vapor on the Wavelength of the Exciting Light,
by M. Alent'ev.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXII, 1948,
pp 607-609.

AEC UCRL Tr 489

Sci .. Phys

Oct 59

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Gamma Spectroscopy Using Compton Electrons, by
B. S. Dzhalepov, M. L. Orbeli, 6 pp.

RUSSIAN, thrice ~~no~~ per, Dok Ak Nauk SSSR, Vol.
LXXII, No 5, 1968, pp 615-617.

Sci Mus Lib No 56/3145

Sci - Physics

44, 027

Abstract, No. 2.
Structure, No. 2.
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Abstract: Abstracts of the Soviet Union, Vol. 62, 1968, No. 5, pp. 653-655; 2 figs., 1 table, 1000 words.

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IN Reference to the Role of Sponges in Dynamics
of Silica in the Water of the Lake Baikal,
by K. K. Vetintsev.

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1948, pp 661-663.

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Sci
Feb 62
Vol III, No 11

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Preparation of an Artificial Phytochromoprotein, by
D. I. Sapesnikov.

RUSSIAN, no per, Dok Akad Nauk SSR, Vol LXXI, No 4,
1948, pp 665 - 667.

AEC Tr 1094

Sci - Chem

Dec 51 CTS

Oknina, E. Z.
ABOUT THE PLASMODESMATA IN PLANT CELLS
IN DORMANCY. [1961] 5p. (13 refs. 4 figs. omitted).
Order from OTS or SLA \$1.10 62-10756

Trans. of Akademiya Nauk SSSR. Doklady, 1948,
v. 62, no. 5, p. 705-712.

DESCRIPTORS: *Plants, Physiology, *Cells (Biology),
*Growth, Metabolism.

(Biological Sciences--Botany, TT, v. 7, no. 10)

62-10756

I. Oknina, E. Z.

Office of Technical Services

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SOME PECULIARITIES OF PLANT CELLS DURING
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Order from OTS or SLA \$1.10 62-10755

Trans. of Akademiya Nauk SSSR. Doklady, 1948,
v. 62, no. 5, p. 713-716.

DESCRIPTORS: *Plants, *Cells (Biology), Physiology,
Rubber, Potatoes, Growth.

(Biological Sciences--Botany, TT, v. 7, no. 10)

62-10755

I. Satarova, N. A.

Office of Technical Services

Application of a Rotating Polarizer to the Study of
the State of Polarization of Reflected and Scattered
Light in Particular for the Purpose of the Precise
Measurement of the Thickness of Thin Films, by
V. V. Karmsev, B. V. Dergyanin, 8 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXII, 1948,
pp 751-764.

SLA 59-15112

Sci - Physics
Sep 59
Vol II, No 2

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Zbarskil, I. B. and Debov, S. S.
THE CELLULAR NUCLEI PROTEINS. [1961] 8p.
10 refs.

Order from OTS or SLA \$1.10

62-10198

Trans. of Akademiya Nauk SSSR. Doklady, 1948, v. 62,
no. 6, p. 795-799.

DESCRIPTORS: *Nucleoproteins, *Cells (Biology),
Plants, Animals.

(Biological Sciences--Biochemistry, TT, v. 7, no. 9)

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I. Zbarskil, I. B.
II. Debov, S. S.

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DOKLADY AKADEMII NAUK SSSR, Vol 62, 1948, pp 799-801

Experimental Determination of Optimum Quantity of Liquid
Phase in Ceramic Materials by the Method of Analogy

Brutcher Trans 2367, \$2.10

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POPIL'SKIY, R. Ya.

DOK AK NAUK SSSR, vol 62, 1948, pp 803-6

On the Process of Sintering and on Certain Properties
of Mullite Synthesized of Refractory Clay and Technical
Alumina

Brutcher Trans 2396, \$2.90

Experiments on the External Photoeffect of Semiconductors, by A. N. Arsen'eva-Geil'.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXII, No 1, 1948, pp 47-50.

AEC Tr 1513

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Scientific - Physics, semiconductors

Brookhaven Nat Lab 24 Mar 1953

860

DAN

Vol 63, #1

(1988)

Generalized Integral Relation for Thermal Boundary
Layers & Application to Calculation of Heat Ex-
change.

L. I. Kudriashov

In process - ANSC
(Telecom - Jern 51)

61/49T83

DOK AK NAUK SSSR

Vol LXIII, No. 1, 4 pp, 1948

"Type $M_{\frac{2}{2}}^{28-1}$ Radioactive Nuclei"

V. S. Dzhelepov

Done by Brookhaven
see G to RSPL Vol 3, No 6, June 1950
Page 157

35/49T87

Electrical Conductivity of Chromium Sulphides,
by I. G. Gakidov, N. P. Grazhdankina.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol 63, No 1,
1948, pp 27-36.
Dept of Navy APL/JHU T-2364

Sci-Elec
Jan 70

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Electric Conductivity of Chromium Sulfides,
by I. G. Fakidov, N. P. Grazhdankina

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXIII, No 1,
1948, pp 27-28.

AEC Tr - K 1147

Scientific - Chemistry

Measurements of the Viscosity of Polymolecular
Boundary Layers of Liquid by the Method of
Blowing, Boundary Phases, by B. Deryagin,
Y. Pichugin, 9 p.

RUSSIAN, per, Dokl. Akad. Nauk SSSR, Vol. LXIII, No. 1,
Pp 53-56.

SLA 59-17402

Sci
Jan 60
Vol 2, No 8

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Elastic Properties of Mono-Layers of Albumins
(Myosin and Myogen) and their Temperature-
Dependence in Connection with Thermal
Denaturation, by A. A. Trapeznikov, 8 p.

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SLA 59-17401

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Jan 60
Vol 2, No 8

105, 588

On the Gas Exchange During Respiration of Grain
Stored in Silos and Warehouses, by A. P. Prokhorova
V. L. Kretovich.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXIII, No 1,
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Sci - Chemistry
Apr 57 CWS/dex

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Dynamics of Nucleic Acids During the Conjugation
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7 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXIII,
No 1, Moscow, 1 Nov 1948, pp 73-75.

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Sci - Medicine

CTS 73 Oct 55

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On the Composition and Structure of Small Stringerlike
Formations on Silica Brick Open-Hearth Roofs, by V. A.
Bron.

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Brutchor Tr No 2398

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Scientific - Min/Metals

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ON THE HIGH FLUIDITY OF SULPHIDE MELTS
AND THE POSSIBLE GEOLOGICAL SIGNIFICANCE
OF THAT PHENOMENON, tr. by C. de Leuchtenberg,
28 Mar 61 [7]p. 1 ref.
Order from OTS or SLA \$1.10

I. Ol'shanskii, Ya. I.
II. Geological Survey of
Canada

61-19565

Trans. from Akademiya Nauk SSSR. Doklady, 1948,
v. 63, no. 2.

DESCRIPTORS: *Iron compounds, *Sulfides, Melting,
Crucibles, Surface tension, Thin films, Chemical
analysis, Fluid flow, Impurities, Rock, Geology,
*Silicates, *Iron alloys, Deposits, Ores, Minerals.

(Earth Sciences--Geology, TT, v. 7, no. 9)

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Zimakov, P. B. and Pokrovskii, V. A.
ON THE OXIDATION MECHANISM OF ALLYL
ALCOHOL AND ACROLEIN. [1963] Sp 5refa
Available on loan from SLA TT-63-20521

Trans. of Akademiya Nauk SSSR, Doklady, 1948, v. 63,
no. 2, p. 143-145.

DESCRIPTORS: *Alcohols, *Acroleins, Oxidation,
Allyl radicals, Silver catalysts.

TT-63-20521

1. Title: Allyl alcohol
- I. Zimakov, P. B.
- II. Pokrovskii, V. A.

TT-63-20521

(Chemistry--Organic, TT, v. 11, no. 1)

Office of Technical Services

Recombination of Atoms on Solid Surfaces by
V. V. Voerodskiy and G. K. Lavrovskaya

SUSSIAN, Dok Ak Nauk SSSR, Vol 63, No 2, 1948,
pp 151-4

See Upton, New York State: Brookhaven National
Laboratory
Guide to Russian scientific per lit, Vol 3, No 1,
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Sci Museum Lib No 50/3281 - London
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Scientific

The Flow Method of Ultramicroscope Measurement of
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Dispersion Systems, by G. Vlasenko, B. E Deriagin,
4 pp.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
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SCI Tr Center
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SLA 59-17171

Scientific - Physics

Jan 55 CTS/DEX

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Doklady Akademi Nauk SSSR, Vol. 63, 1968, No. 2, pp.
159-162; 4 figs., 1 table; 1350 words.

Increase in Strain Hardening of Metals During Periodic
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Physical and Photochemical Properties of Chlorophyll
in Different Form of Binding, by A. A. Krasnovskii,
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No 2, 1948, pp 163-165.

CIA/FDD/X-1500

Scientific - Chemistry

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61-22605

Voevodskii, V. V. and Lavrovskaya, G. K.
RECOMBINATION OF ATOMS ON SOLID SURFACES
[Rekombinatsiya Atomov na Tverdykh Poverkhnostiakh].
[1961] 4p.

Order from ATS \$6.95

ATS-84N51R

Trans. of Akademiya Nauk SSSR, Doklady, 1948,
v. 63, no. 2, p. 151-154.
Another translation is available from SLA as RT-612.

DESCRIPTORS: Atoms, *Recombination reactions,
Surfaces.

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- II. Lavrovskaya, G. K.
- III. ATS-84N51R
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Services, Inc., East
Orange, N. J.

175315

Aspartic-Alanine Aminoferase, by M. G. Kritsman,
O. P. Semarina, 7 pp.

RUSSIAN, thrine-no per, Dok Ak Nauk SSSR, Vol LXIII,
No 2, 1948, pp 171-173. ~~CTR-D-291127~~

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CTB 66/Mar 1955

Frimer, A. I.
ELECTRON MICROSCOPE STUDIES OF ANTIMONY
CESIUM LAYERS. [1963] [9p] 1 ref. AERDL T-1690.
Order from OTS, SLA, or ETC \$1.10 TT-63-23943

Trans. of Akademika Nauk SSSR, Doklady 1943,
v. 63, no. 3, p. 255-257.

DESCRIPTORS: *Thin films, *Metal films, *Antimony,
*Cesium, Vapor plating, Microstructure, *Electron
microscopy.

(Physics--Solid State, TT, v. 11, no. 6)

TT-63-2394

- I. Frimer, A. I.
- II. AERDL T-1690
- III. Army Engineer Research
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Fort Belvoir, Va.
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"Speed of Ultrasound" ---

V. F. Nozdrev

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Vol LXIII, No 3, 1948, 2½ pp

"Influence of Surface on the Polymerization of Vinyl
Acetate"

A. Ya. Pavlushina
M. V. Polyakov

AEC/BNL/tr - 127

55/49T22

DOK AK NAUK SSSR

Vol LXIII, No 3, 4 PP, 1948
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"Dispersion of a Droplet in an Air Stream"

M. S. Volynskiy

Trans Avail @ Sci Museum

Trans # 50/1228

Great Brit

Done also by AEC #168

Brookhaven

36/49T80

Fine Structure of the Gamma Lines of RaC by
V. V. Gay, G. D. Latuishev and M. V. Pasechnik

RUSSIAN, Dok Ak Nauk SSSR, Vol 63, No 3, 1948,
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See Upton, New York State: Brookhaven National
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Guide to Russian scientific per lit, Vol 3, No 2,
Feb 1950, pp 33-36

Sci Museum Lib No 50/3268 - London

SLA 61-17435

Scientific

The Role of Copper in Obtaining Metallo-Aromatic
Compounds by Diazo -- Reaction and Some Considerations
on the Mechanism of the Sandmeyer Reaction, by A. B.
Bruker and F. L. Maklayev, ~~300/2155~~ 7 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol. LXIII, No 3, 1948.

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Scientific - Chemistry

16,672

Experiment on the Fractional Separation
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Several Subterranean Waters of the ~~Am~~
Saratogan Gaseous Layer, by Ya., Ya. Dodonov,
L. V. Eferova, et al.

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SLA TT 64-20190

Apr 67

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The examination of the process of oxidation of iron
(rusting) with the aid of oxygen isotopes.
RUSSIAN per Doklady Akademii Nauk SSSR, 1948, Vol 63,
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Determination of the Coordinate Axes of the Basic
Physiological System From Experimental Color
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1948, pp 383-385.

Navy 2239/OHI 534

Sci - Physics
Aug 59

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NEW FAMILY of Parasitic Muscoid Diptera. From Pechov
Zavolzh'ia, by B. B. Rodendorf, 9 pp.

RUSSIAN, title-no par, Dok Ak Nauk SSSR, Vol LXIII,
No 4, 1948, pp 455-458.

Sci Tr Center RT-1220

Scientific - Biology

Jul 54 CTS

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New Species of Bot-Flies From Under the Hide of
Orongo Antelopes, by K. Ya. Grunin, 3 pp.

RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol LXIII,
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Sci Trans Center: RT-424
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Scientific - Biology
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Problem in Torsion, by D. I. Sherman.

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Vol LXIII, 1948, pp 499-502.

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Sci - Engr

Mar 62

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Vol 63, # 5

(1988)

Motion of Particles of Products of Detonation of
Linear Charge

R. P. Stanyukovich

In process - ANK
(Jelcom - Jan 51)

Contribution to the Theory of the Coercive Force
of Steel, by E. Kondorskiy

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol
XIII, No 5, 1948, pp 507-510.

Butcher Tr 3221

Scientific - Minerals/Metals
GAS/DEX Price \$3.90

11,394

Monochromatic Positrons of Internal Conversion by
G. D. Latunishv, V. V. Gey, A. A. Bashilov and
I. F. Barchuk

RUSSIAN, Dok Ak, Vol 63, No 5, 1948, pp 511-3

See Upton, New York State: Brookhaven National
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Feb 1950, pp 37-40

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Scientific

Also Brookhaven

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The Thermodynamic Basis of the Influence of Stereo-
Influence, by V. G. Trosev, V. P. Chirikov, 6 pp.

RUSSIAN, three-mo per, Dok Ak Nauk SSSR, Vol XVIII,
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Sci Tr Ctr RT-3410

Scientific - Chemistry

34, 914

May 56 CTS/dex

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Contribution to the Question of the 22-Year Cycle
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Sci - Astron
Mar 59

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Energy Level Structure of the Antimony-Cesium Cathode,
by M. S. Khlebnikov, A. E. Melamid.

Full translation.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXIII, No 6, 1948,
pp 649-651.

AEC Tr 1478

Scientific - Physics, Electricity, antimony-cesium,
cathode

Jan 53 CTS/DEX

P.S.I. 4 T-429

in Trans 1254/1255

Adsorption Isotherms of Solutions Involving Phase
Separation and Crystallisation. Adsorption of
Phenol from Solutions in Heptane on Silica Gel,
by K. G. Krasil'nikov, and A. V. Kisilev,
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RUSSIAN, per, Dok Ak Nauk SSSR, 1948, Vol 63, No 6,
pp 693-699.

Sci Mus Lib No 52/2940

Scientific - Chemistry
25 October 1950

Solubility in the system $\text{NiO} - \text{Fe}_2\text{O}_3$, by N. A.
Kopylov, and A. I. Borisenko.

English translation.

Abstract, no per, Dok Ak Nauk SSSR, Vol LXIII, No 6,
1968, pp 705-708.

AEC Tr 1438

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SLA TR R-1036

Scientific - Chemistry, $\text{NiO} - \text{Fe}_2\text{O}_3$

Nov 52 CTS/DEX

On the Subject of Paragenesis of Titanium Organic
Carbon, and Some Other Elements, by L. V.
Khmel'yovskaya, N. G. Morozova, 8 p.

RUSSIAN, per, Dok Ak Nauk SSSR, 1948, Vol LXIII,
No 6, pp 713-715.

SLA 59-16376.

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Vol 2, No 10

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(1948)

V. L. Ryzhkov, Some Laws Governing the Action of
Suppressors of Viruses and Bacteriophage.

Prof. # 841?

L. M. El.

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Vol LXIV, No 1, 4 PP, 1977

DOK AK NAUK SSSR

"Surface Tension in Eutectic Alloys"

Iu. A. Klyachko
L. L. Kunin

AEC/BNL/ tr - 119

26/49T79

DOK AK NAUK SSSR

Vol LXIV, No 1, 3 pp, 1949

"The New Theory of Solar Eruptions and Sudden
Disturbances of the Ionosphere in the D Layer Dependent
Upon Them"

I. S. Shklovskiy

NRL Trans 211

26/49T84

DOK AK NAUK SSSR

Vol LXIV, No 1, 4 pp, 1949

"Organic Peroxide From Green Leaves"

P. A. Kolesnikov

Done by AEC
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26/49T3

Observation of the Region of the Galactic Center in
the Infrared, by A. A. Kalinyak, V. I. Krasovskiy,
V. B. Nikonov, 8 pp. UNCLASSIFIED

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LXIV,
No 1, pp 25-28.

1949

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Scientific - Astronomy

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A New Oxide of Potassium, by I. A. Kazharnovskiy et al.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol LXIV, No 1, 1949,
pp 69-72.

ATS RJ-1691

Sci - Chem

Jul 59

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Photochemical Reaction of Organomercuric Compounds
in Solutions, by G. A. Razuvuev, Yu. A. Ol'dekop,
7 pp.

RUSSIAN, thrice-mo. per, Dok Ak Nauk SSSR, Vol LXIV,
No 1, 1949, pp 77-80.

CIA/PDD/X-1192

Scientific - Chemistry
CTS/DEX

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Andreeva, N. A. and Bukin, V. N.
EEN FLUORIMETRISCHE METHODE VOOR BEPALING
VAN FOLICZUUR (Fluorometrische Methode voor
Bepaling van Folic Acid) tr. by R. Belz. 8p. 3 refs. MTWL: 873.
(text in Dutch).

Order from OTS or ETC \$1.55

61-17637

Trans. of Akademiya Nauk SSSR. Doklady, 1949,
v. 64, p. 95-98.

DESCRIPTORS: *Folic acid, Vitamin B, Fluorophoto-
meters, *Fluorescence.

61-17637

- I. Andreeva, N. A.
- II. Bukin, V. N.
- III. MTWL-873
- IV. Stichting Moeilijk
Toegankelijke Wetenschap-
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Study of the Initial Stages of Build Up and Decay
of Zinc Sulfide Phosphors by Means of an
Oscillographic Phosphorescope, by V. A.
Arkhangel'skaya, A. M. Bonch-Bruевич, H. A.
Tolstol, P. P. Feofilov, 7 pp.

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RUSSIAN, thrice-no per, Dok Ak Nauk SSSR, Vol LXIV,
No 2, 1949, pp 187-190.

CIA/DDS-119

NLL M. 2890

9174

Scientific - Physics
CTS/DEX

DAN Vol 64 No. 2 (Jan '49)

Proj # 8882

pp 199-201

ST-299

The Mass of Neutral Mesons

by A. Sokolov &
B. Kerimov

SR 11/5/51

3-page typed
job by UK

Effect of the Color Adaptation of the Eye Upon
Its Reactivity in Relation to Inadequate Stimulating
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"Oscillations of a Wing Profile in a Supersonic Stream"

p. I. Kuznetsov

C.I. Abst. of Tech Int. Doc.

(Card on file in subject file under "Wings")

F2 3047-49

Discrepancy in pages 4 pp (FDB) vs. 155 pp.

states partial English translation

27/49T2

DAN

Vol 64, # 3

(1149)

Oscillations of an Airfoil in a Supersonic Flow
P. I. Kuznetsov

Sci Tr Cont RT 318

In process:
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β^+ β^- Decay in Br^{80} , by B. S. Dzhelepov,
N. M. Antonyeva, S. A. Shestopalova, 7 pp.

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AEC Tr 2196

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Experiments for the ¹XStudy of Cosmic Rays by the
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6 pp.

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CTS/DEK

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Positrons of Internal Conversion by L. A. Sliv

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Scientific

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The Process of Catalytic Alkylation of Aniline by
H-butane, by K. Lavrovskii, A. Mikhovskaya and L.
Olen'chenko.

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Jun 52 CTS

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TT-63-20794

Artemov, I. S.
NEW METHOD OF HIGH-GRADE DISTILLATION OF
LIQUIDS. [1963] [6p]
Order from OTS, SLA, or ETC \$1.10 TT-63-20794

Trans. of Akad[emiya] Nauk SSSR. Doklady, 1949,
v. 64, no. 3, p. 357-360. (Abstract available)

DESCRIPTORS: *Distillation, Liquids, Water,
Pressure, Vaporization, Gas flow,

The liquid is evaporated at a temperature lower than its boiling temperature under atmospheric pressure, with a stream of purified air sweeping its surface to carry off the vapor. The rate of distillation at a given temperature increases with the velocity of the air stream particularly at low velocities and tends to level off as the velocity is increased. Water distilled once by this method has an electrical conductivity of $0.5 \times 10^{-6} \text{ ohm}^{-1}$, i.e., a purity of the same order as (Chemistry--Physical, TT, v. 11, no. 4) (over)

I. Artemov, I. S.

Office of Technical Services

DAN 64, No 3, P 397-400

"Effect of Preliminary Darkening of
Photosynthesis of Higher & Lower
Aquatic Plants" V.A. Brilliant

Proj 6443

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SR 22 Aug 1950

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NIH Tr 5-66

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"Emission During Collisions of High-Velocity Neutrons With
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I. Pomeranchuk

I. Shmushkevich

Done by Brookhaven and pub. in
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May 1949, Pages 159-162

27/49T88

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"The Mechanism of the Physical Method for Separating
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A. S. Karamyan

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Ring-Shaped Source of Turbulence, by Yu. B. Rumer,

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Light, by M. N. Alentsev, 9 pp.

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Measurement of the Absolute Output of Luminescence
of Powderlike Phosphors, by V. V. Antonov-Romanovskiy,
M. I. Epshteyn, 8 pp.

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5.4.54.10820

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Radiation on Collision of Fast Neutrons With
Protons by I. Pomeranchuk and I. Shmushkevich

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Quantum Theory of Relativity
by Ya. I. Frenkel

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Compounds in the Process of Chemical Destruction, by
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REC Tr 1454

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V.A. Brilliant

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